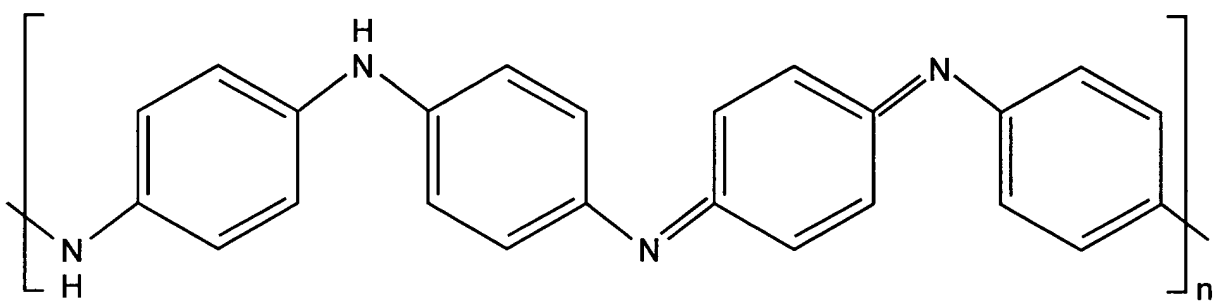


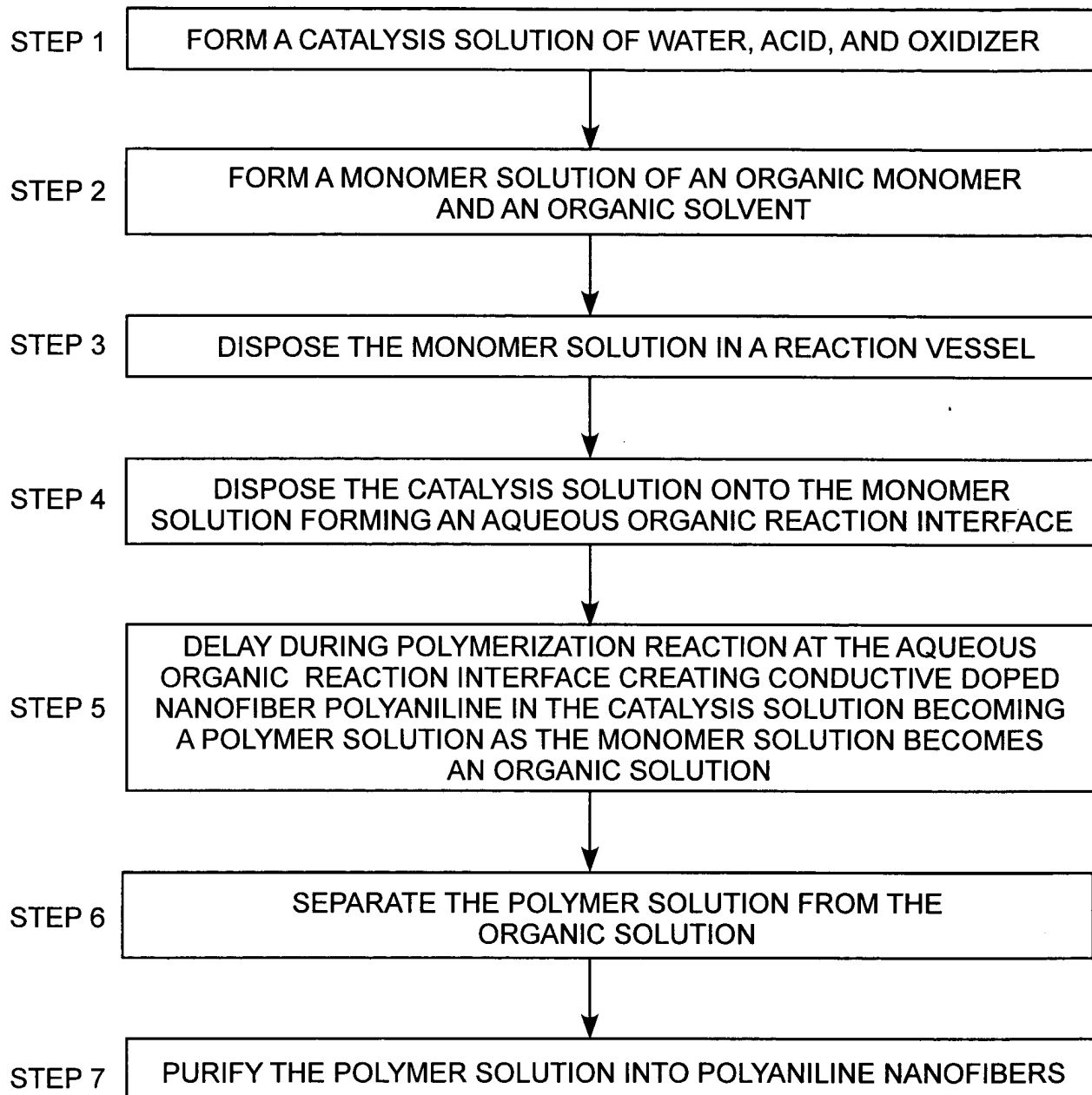
DOPED POLYANILINE EMERALDINE SALT ($\sigma = 10 \text{ S/cm}$)

FIG. 1A



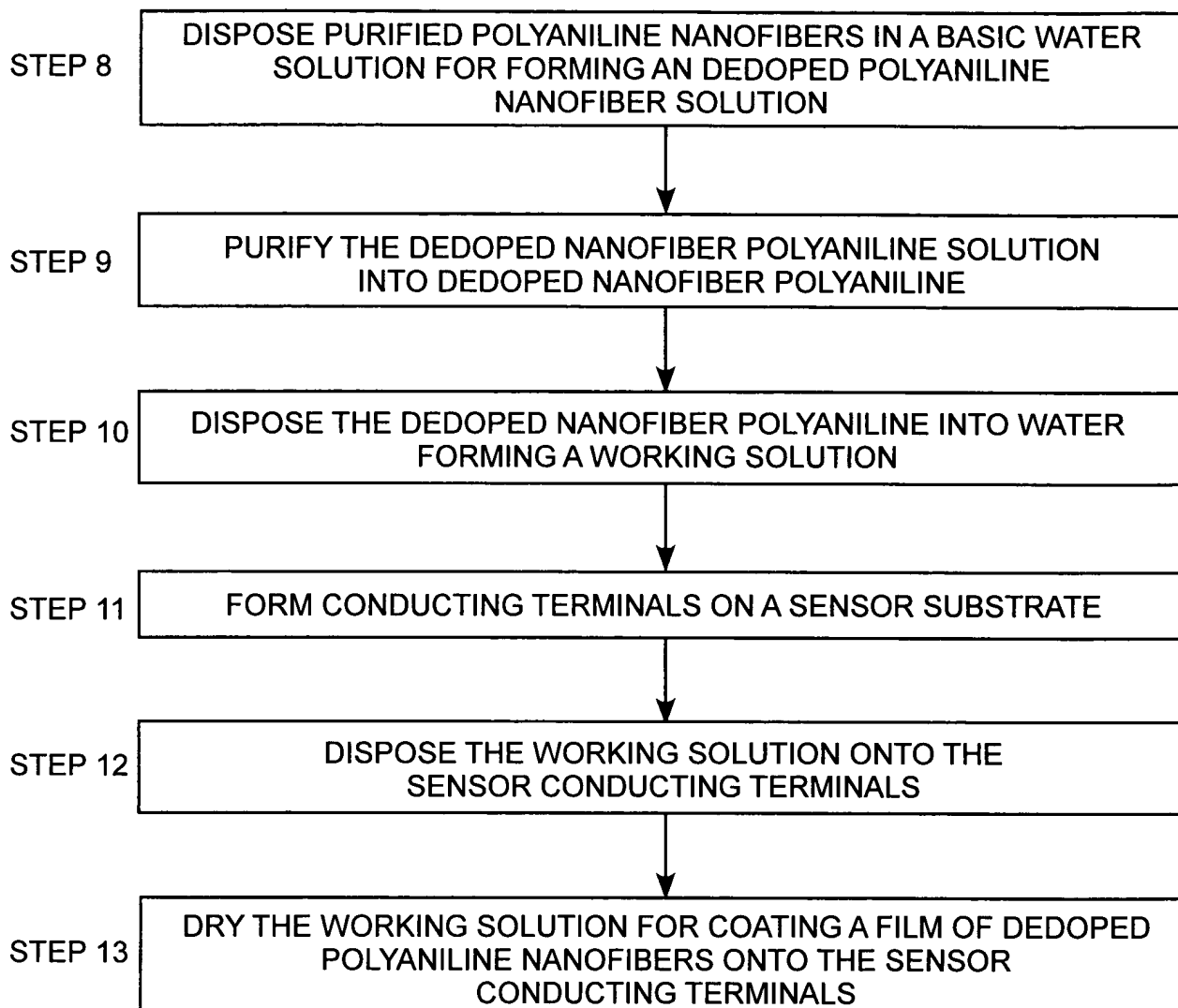
DEDOPED POLYANILINE EMERALDINE BASE ($\sigma = 1 \times 10^{-10} \text{ S/cm}$)

FIG. 1B



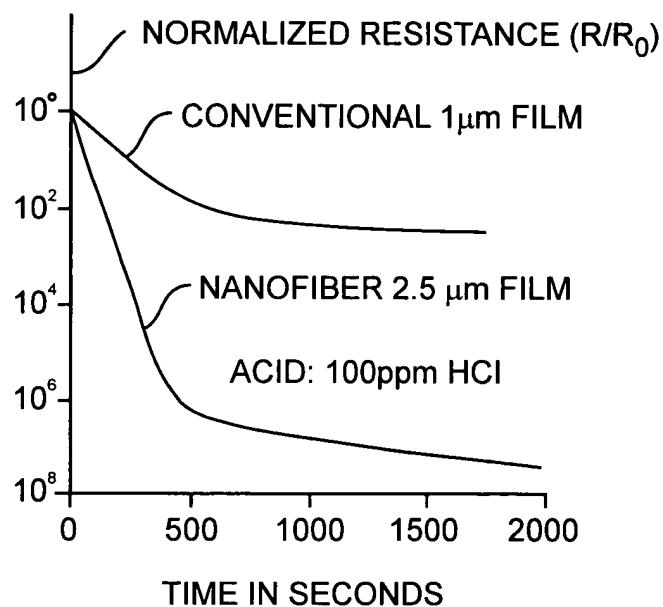
METHOD OF SYNTHESIZING POLYANILINE NANOFIBERS

FIG. 2



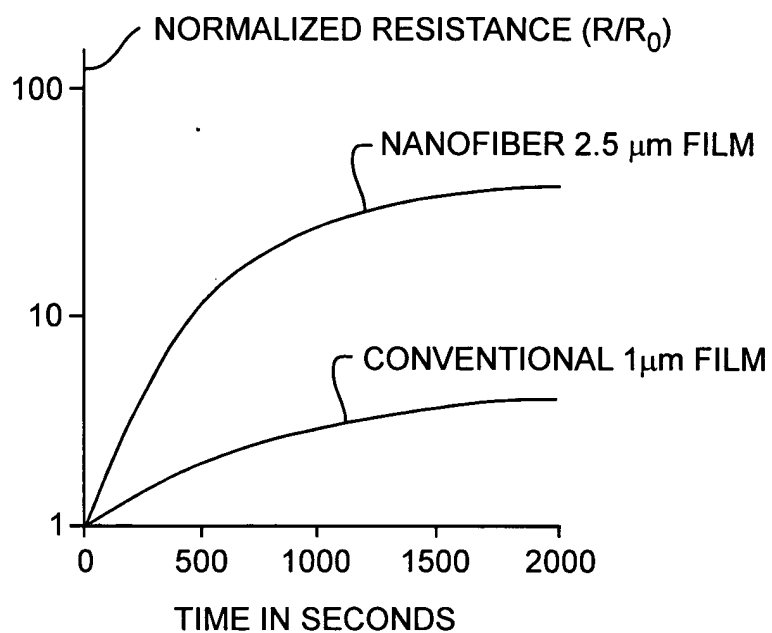
METHOD OF FORMING AN ACID SENSOR

FIG. 3



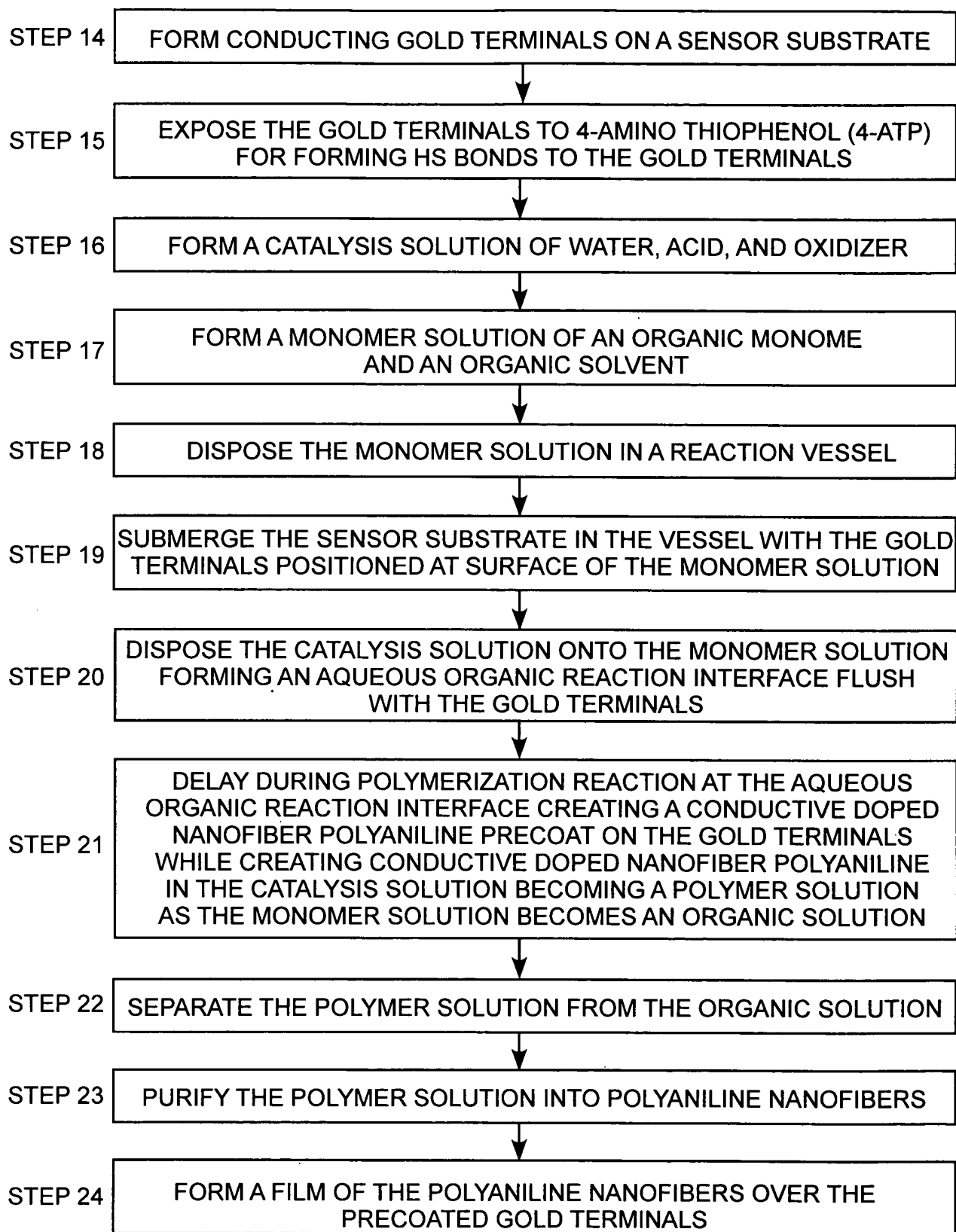
NANOFIBER TIME RESPONSE TO ACID DOPANT

FIG. 4A



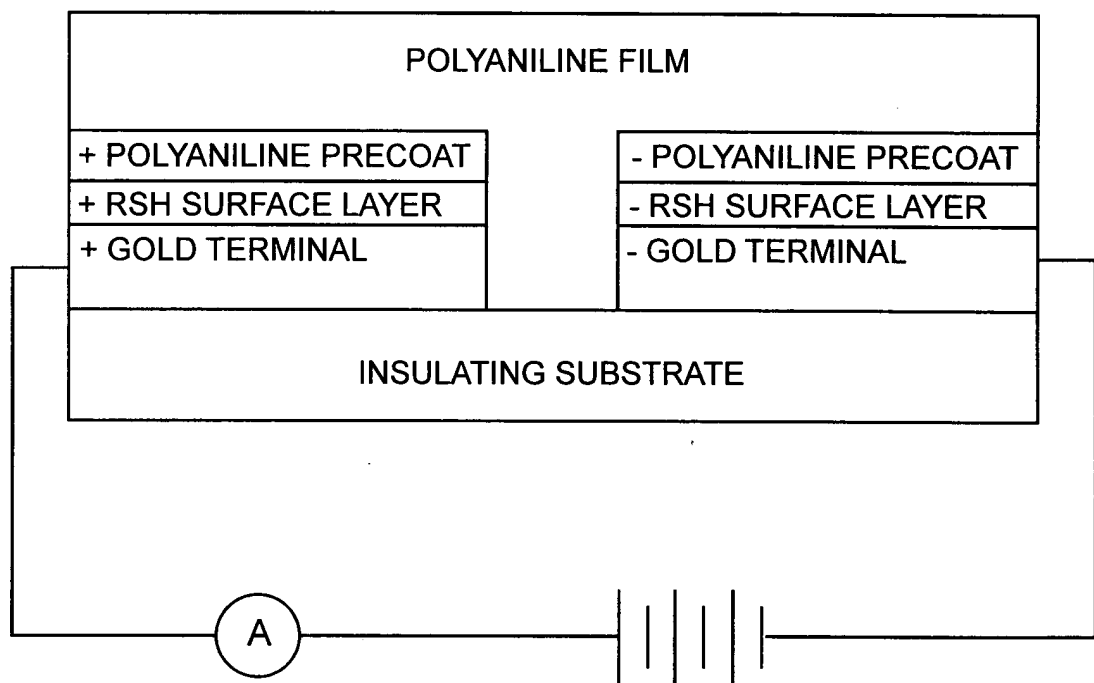
NANOFIBER TIME RESPONSE TO BASE DEDOPANT

FIG. 4B



METHOD OF FORMING A POLYANILINE NANOFIBER PRECOATED SENSOR

FIG. 5



POLYANILINE NANOFIBER PRECOATED SENSOR

FIG. 6